

What is claimed is:

1. For use with an electric power-generating device that converts fluid flow of wind or water to electricity including a rotor having blades that rotate in response to fluid flow; a main power input shaft coupled to said rotor; a single-stage torque-dividing gearbox coupled to said main power input shaft; said torque-dividing gearbox having a plurality of output shafts located around a perimeter of said main power input shaft; and, a plurality of sub-powertrains, each one of said sub-powertrains including a generator coupled to a respective one of said output shafts, a controller method comprising:

Regulating torque experienced by each said generator to assure that torques are balanced between generators at any given system load.

2. The method of claim 1 wherein said regulating step includes controlling local voltage at each said generator by a transformer configured as a reactor, in which coils of said transformers are wired in parallel and are actively modulated with an SCR, solid-state, switching device.

3. The method of claim 2 wherein each generator is connected to a respective primary coil of a transformer and a respective secondary coil is connected to an SCR

4. The method of claim 1 said regulating step includes modifying a slip characteristic of each generator to match the generator with the greatest slip.

5. The method of claim 4 modifying step includes increasing the rotor resistance to have the effect of increasing the slip characteristic of each generator.

6. In a system of mechanically coupled multiple induction generators driven by a single rotor, a method of regulating torque experienced by each induction generator to assure that torques are balanced between generators at any system load comprising steps of:

A. Monitoring torque on each individual generator;

- 6 B. Determining relative torque balance between said multiple generators; and,
- 7 C. Modifying torque characteristics of said individual generators to bring said generators into
- 8 balance to provide uniform torque load distribution between said multiple generators.

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